

Claims

1. A pulley for nubbed belts in a positive-locking and self-guiding belt drive, the nubbed belts having on
5 their contact surface projections formed as nubs, e.g., in the form of discs or truncated cones, in a recurring geometrical arrangement, and the surface of the pulley being formed with recesses in a corresponding arrangement meshing with the nubs, characterized in that
10 all recesses (3, 9, 13) are disposed at the lateral edges of the pulley (1, 5, 6, 7, 12) and are open toward the side in an axial direction, and that, if necessary, two or more such pulleys (1, 5, 6, 7, 12) are disposed adjacent to one another in a torsionally rigid manner on
15 the same shaft (8).
2. A pulley as claimed in claim 1, characterized in that the recesses (3, 9, 13), viewed from above, are formed essentially U-shaped, and that the U-shaped recesses at
20 least partially embrace the projections, especially the base circles of the disc-shaped or frustoconical nubs (4, 10, 21, 22).
3. A pulley as claimed in claim 2, characterized in that
25 both the recesses (3, 9, 13) and the nubs (21), viewed from above, are formed essentially U-shaped.
4. A pulley as claimed in claim 2, characterized in that
30 the flanks of the recesses adjacent to the lateral openings of the U-shaped recesses (3, 9, 13) run parallel or, starting from the opening, converge toward one another.

5. A pulley as claimed in claim 1, characterized in that each of the recesses (13) has the complementary shape of a nub (10) halved in the direction of travel, and, viewed from above, is preferably of semicircular shape.
5 (Fig. 4)
6. A pulley as claimed in one of claims 1 to 5, characterized in that the bore for the rotating shaft (8) has two grooves (14, 15) offset at an angle to one
10 another for assembling of layer-like composite multiple-width pulleys (12) having recesses offset at an angle, and that the shaft (8) is formed with a rib (16) serving as pusher dog.
- 15 7. A pulley as claimed in one of claims 1 to 6, characterized in that at the flat sides of each pulley (12) positive-locking connections for assembling of layer-like composite pulleys (12) are provided (Figs. 9, 10).
- 20 8. A nubbed belt for a pulley as claimed in one of claims 1 to 7, characterized in that the nubs (21, 22) have the physical shape of a flat cylinder or a flat cone on the base of an ellipse or an oval or a cuboid shape with an
25 adjoining half circular cylinder, the front surfaces, being formed convex or rounded, as necessary. (Figs. 7, 8)